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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/551,014	04/18/2000	Norbert Roma	940630-010-020	2080		
7:	7590 10/07/2003			EXAMINER		
Blaney Harper Esq Jones Day Reavis & Pogue 51 Louisiana Avenue NW			POLLĄCK, MELVIN H			
			ART UNIT	PAPER NUMBER		
Washington, D	C 20001-2113		2141	H		
	•		DATE MAILED: 10/07/2003	/		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	7
Office Action Summary		09/551,014	ROMA, NORBERT	'
		Examiner	Art Unit	
		Melvin H Pollack	2141	<u> </u>
The MAILING Period for Reply	DATE of this communication	on appears on the cover sheet w	ith the correspondence address -	•
THE MAILING DATE  - Extensions of time may be after SIX (6) MONTHS fror  - If the period for reply speci  - If NO period for reply is speciful to reply within the second reply within the second reply received by the Co	OF THIS COMMUNICAT available under the provisions of 37 in the mailing date of this communicatied above is less than thirty (30) day secified above, the maximum statutory et or extended period for reply will, b	CFR 1.136(a). In no event, however, may a tion. s, a reply within the statutory minimum of thi	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communica BANDONED (35 U.S.C. § 133).	ıtion.
1) Responsive to	communication(s) filed o	on <u>18 A<i>pril 2000</i></u> .		
2a) This action is	FINAL. 2b)	★ This action is non-final.		
		allowance except for formal ma under <i>Ex part</i> e <i>Quayl</i> e, 1935 C.	atters, prosecution as to the meri D. 11, 453 O.G. 213.	ts is
4)⊠ Claim(s) <u>1-20</u>	is/are pending in the appl	ication.	•	
4a) Of the above	ve claim(s) is/are w	ithdrawn from consideration.		
5)☐ Claim(s)	_ is/are allowed.			
6)⊠ Claim(s) <u>1-20</u> i	s/are rejected.			
7) Claim(s)	_ is/are objected to.			
8) Claim(s) Application Papers	are subject to restriction	and/or election requirement.		
9)☐ The specification	n is objected to by the Ex	aminer.		
10) The drawing(s)	filed on <u>18 April 2000</u> is/a	re: a)□ accepted or b)⊠ objecte	d to by the Examiner.	
Applicant may	not request that any objection	on to the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).	
11)☐ The proposed d	rawing correction filed on	is: a) approved b)	disapproved by the Examiner.	
If approved, co	rrected drawings are require	ed in reply to this Office action.		
12) The oath or dec	claration is objected to by	the Examiner.		
Priority under 35 U.S.C	. §§ 119 and 120			
13) Acknowledgme	ent is made of a claim for	foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)□ All b)□ So	ome * c)□ None of:			
1. ☐ Certified	copies of the priority doc	uments have been received.		
2.☐ Certified	copies of the priority doc	uments have been received in A	Application No	
appl	ication from the Internatio	ne priority documents have beer nal Bureau (PCT Rule 17.2(a)). r a list of the certified copies no		
		•	. § 119(e) (to a provisional applic	ation)
		age provisional application has t		
15) Acknowledgme		omestic priority under 35 U.S.C		
Attachment(s)	(DTO 000)	<b>,,</b> □ , ,	. C	
· — ·	ted (PTO-892) Patent Drawing Review (PTO-9 Statement(s) (PTO-1449) Paper	948) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152) ee attached office action .	

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#### **DETAILED ACTION**

## **Drawings**

1. New corrected drawings are required in this application because many of the lines and lettering appear to be drawn by freehand (Fig. 1, 55-59, Fig. 2 & 3) and because there is insufficient labeling within the drawings themselves (i.e. it is unclear what item #55 is, or what Fig 2 and 3 represent). Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

# Claim Rejections - 35 USC § 101

- 2. 35 U.S.C. 101 reads as follows:
  - Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.
- 3. Claims 5, 7, 12, 14, 18, and 20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. These claims are nonstatutory because, instead of describing process method steps, they are drawn to a mathematical function and are thus unpatentable (See MPEP §2106). It is held that one cannot patent abstract formulas, even as part of a larger process.
- 4. Said claims are also rejected under 35 U.S.C. 101 because the disclosed invention is inoperative and therefore lacks utility. For the claims that list the exponential decay function, there is no limit on "n" to keep  $r_k$  from returning an incorrect number. If n = -1, there is a division by zero error, and if n < -1,  $r_k$  becomes a negative number. For the claims that list the

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power law function definition, the problem is similar. If N = -1, there is a division by zero error, and if N < -1,  $r_k$  becomes imaginary.

#### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Schultz (6,208,988).
- 7. For claim 1, Schultz teaches a method (see abstract) of selecting documents from a data stream (col. 1, lines 5-20), comprising:
  - a. Selecting a resource having information comparable to said data stream (col. 1, lines 45-55);
  - b. Selecting at least one topic (Fig. 2, #206, 208);
  - c. Analyzing said topic against said resource (col. 1, lines 50-55);
  - d. Analyzing said topic against said data stream (col. 1, lines 55-67); and
  - e. Comparing results from said data stream analysis to results from said resource analysis to select a document from said data stream (Fig. 2, #208, 210).
- 8. Claims 2, 3 are rejected under 35 U.S.C. 102(e) as being anticipated by Eichstaedt et al. (6,385,619).

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- 9. For claim 2, Eichstaedt teaches a method (see abstract) of selecting documents (col. 1, lines 5-11) from a data stream (Fig. 2, #58 and #64), comprising:
  - a. Selecting a profile (Fig. 2, #62);
  - b. Analyzing a reference corpus of documents against said profile to determine at least one score (col. 1, lines 35-55);
  - c. Scoring at least one document from said data stream against said profile (col. 3, lines 15-25); and
  - d. Comparing said scores from said data stream document to said at least one score from said reference corpus to select said document from said data stream (col. 1, lines 59-62).
- 10. As for claim 3, Eichstaedt teaches that the method further comprises determining a plurality of reference corpus scores defining a plurality of delivery rations, and determining a delivery ratio that corresponds to said score from said data stream document to select said data stream document (col. 4, lines 4-30).

## Claim Rejections - 35 USC § 103

- 11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 12. Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eichstaedt as applied to claims 2, 3 above, and further in view of Cook et al. (5,557,227).

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- 13. For claim 4, Eichstaedt does not expressly disclose that the scores are determined according to an exponential decay function, further defined in claim 5. Eichstaedt does disclose that a decay function of a generic type is used (col. 4, lines 6-8), and that many suitable scoring functions may be used with similar effect (col. 4, lines 15-16). Cook teaches the definition and use (see abstract) of an exponential decay function (col. 1, lines 9-11). At the time the invention was made, one of ordinary skill in the art would have used said function because it is easy to emulate in a computer (col. 1, lines 14-15). Further, the choice of function is a design choice.
- 14. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eichstaedt as applied to claims 2, 3 above, and further in view of Heckerman et al. (6,529,895).
- 15. For claim 6, Eichstaedt does not expressly disclose that the scores are determined according to a power law function, further defined in claim 7. Eichstaedt does disclose that a decay function of a generic type is used (col. 4, lines 6-8), and that many suitable scoring functions may be used with similar effect (col. 4, lines 15-16). Heckerman teaches the definition and use (see abstract) of an exponential decay function (Fig. 6a). At the time the invention was made, one of ordinary skill in the art would have used said function because it can be used to model a variety of items in accordance with Zipf's law (col. 10, lines 53-64). Further, the choice of function is a design choice.
- 16. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schultz as applied to claim 1 above, and further in view of Evans (6,473755).

17. Claim 8 is drawn to many of the limitations of claim 1, which Schultz teaches as shown above, but is further drawn to the steps of:

- a. Receiving an information request from a communication network (Fig. 2, #202);
- b. Selecting a data source (see below); and
- c. Transmitting said retrieved documents over said communications network (Fig. 2, #210).
- Schultz teaches the reading of multiple data sources into a database (Fig. 1, 110 and 112), but does not expressly disclose selecting a data source. Evans teaches the selection of a data source (Fig. 2, 120). At the time the invention was made, one of ordinary skill in the art would have modified Schultz to use multiple databases so as to concentrate documents related by topic for faster processing (col. 5, lines 5-15).
- 19. As to claims 9-20, they do not teach or define above the correspondingly rejected claims1-8 and thus claims 9-20 are rejected for the reasons given above.

#### Conclusion

20. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melvin H Pollack whose telephone number is (703) 305-4641. The examiner can normally be reached on 8:30-5:00 M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on (703)305-4003. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800.

MHP

11 September 2003

DAVID WILEY

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100